

CLAIMS

1. An ignition coil comprising;
 - a housing;
 - a rod-shaped center core arranged substantially at the center within the housing;
 - 5 a thermal stress relaxing member covering the outer circumferential surface of the center core;
 - a cylindrical spool arranged on the outer circumferential side of the thermal stress relaxing member with a gap in between; and
 - 10 a resin insulating material with which the gap is filled and which hardens; wherein the thermal stress relaxing member is wound around the center core; and
 - 15 the thickness of the thermal stress relaxing member is set to a thickness so that the thermal stress, which is caused by the thermal deformation of the center core and is applied to the resin insulating material, is reduced and reaches a saturation value thereof.
2. An ignition coil, as set forth in claim 1, wherein the center core is a laminated core made up of magnetic plates stacked in the radial direction.
3. An ignition coil, as set forth in claim 1, 25 wherein the thermal stress relaxing member has a linear expansion coefficient of $25 \times 10^{-6} \text{ }^{\circ}\text{C}$ or lower and the thickness thereof is set to 0.1 mm or greater.
4. An ignition coil, as set forth in claim 1, 30 wherein the thermal stress relaxing member is made of poly ethylene terephthalate, polyester, glass fabrics, polyamide, fluororesin or vinyl chloride and the thickness of the thermal stress relaxing member is set to 0.1 mm or greater.